

SEQUENCE LISTING

<110> Brett P. Monia
Susan M. Freier
Scott Cooper

<120> ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2
EXPRESSION

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aagtgactgc agcagcagcg gcagcgcctc ggttccttag gcccaccgcag gctgaaggca 180

ttgcgcgttag tccatgcccgt tagaggaagt gtgcagatgg gattaacgtc cacatggaga 240

tatggaagag gaccggggat tggtaaccgtaa acc atg gtc agc tgg ggt cgt ttc 294

Met Val Ser Trp Gly Arg Phe

1 5

atc tgc ctg gtc gtg gtc acc atg gca acc ttg tcc ctg gcc cgg ccc 342
Ile Cys Leu Val Val Val Thr Met Ala Thr Leu Ser Leu Ala Arg Pro

10 15 20

tcc ttc agt tta gtt gag gat acc aca tta gag cca gaa gag cca cca 390
Ser Phe Ser Leu Val Glu Asp Thr Thr Leu Glu Pro Glu Glu Pro Pro

25 30 35

acc aaa tac caa atc tct caa cca gaa gtg tac gtg gct gcg cca ggg
Thr Lys Tyr Gln Ile Ser Gln Pro Glu Val Tyr Val Ala Ala Pro Gly
40 45 50 55

438

gag tcg cta gag gtg cgc tgc ctg ttg aaa gat gcc gcc gtg atc a
Glu Ser Leu Glu Val Arg Cys Leu Leu Lys Asp Ala Ala Val Ile
60 65

36

534

tgg act aag gat ggg gtg cac ttg ggg ccc aac aat a
Trp Thr Lys Asp Gly Val His Leu Gly Pro Asn Asp tcc ggc
75 80

Ser Gly

582

att ggg gag tac ttg cag ata aag ggc
Ile Gly Glu Tyr Leu Gln Ile Lys C

90

95

RTS-0250

-3-

ctc tat gct tgt act gcc agt agg act gta gac agt gaa act tgg tac 630
 ctc tat gct tgt act gcc agt agg act gta gac agt gaa act tgg tac
 Leu Tyr Ala Cys Thr Ala Ser Arg Thr Val Asp Ser Glu Thr Trp Tyr
 105 110 115
 ttc atg gtg aat gtc aca gat gcc atc tca tcc gga gat gat gag gat 678
 ttc atg gtg aat gtc aca gat gcc atc tca tcc gga gat gat gag gat
 Phe Met Val Asn Val Thr Asp Ala Ile Ser Ser Gly Asp Asp Glu Asp
 120 125 130 135
 gac acc gat ggt gcg gaa gat ttt gtc agt gag aac agt aac aac aag 726
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 Asp Thr Asp Gly Ala Glu Asp Phe Val Ser Glu Asn Ser Asn Asn Lys
 140 145 150
 aga gca cca tac tgg acc aac aca gaa aag atg gaa aag cgg ctc cat 774
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 Arg Ala Pro Tyr Trp Thr Asn Thr Glu Lys Met Glu Lys Arg Leu His
 155 160 165
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 Ala Val Pro Ala Ala Asn Thr Val Lys Phe Arg Cys Pro Ala Gly Gly
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 aac cca atg cca acc atg cgg tgg ctg aaa aac ggg aag gag ttt aag 870
 aac cca atg cca acc atg cgg tgg ctg aaa aac ggg aag gag ttt aag
 Asn Pro Met Pro Thr Met Arg Trp Leu Lys Asn Gly Lys Glu Phe Lys
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 Gln Glu His Arg Ile Gly Gly Tyr Lys Val Arg Asn Gln His Trp Ser
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 Leu Ile Met Glu Ser Val Val Pro Ser Asp Lys Gly Asn Tyr Thr Cys
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 Val Val Glu Arg Ser Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro
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 gca aat gcc tcc aca gtg gtc gga gga gac gta gag ttt gtc tgc aag 1110
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 Ala Asn Ala Ser Thr Val Val Gly Gly Asp Val Glu Phe Val Cys Lys
 265 270 275

gtt tac agt gat gcc cag ccc cac atc cag tgg atc aag cac gtg gaa	285	290	295	1158	
Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Ile Lys His Val Glu					
aag aac ggc agt aaa tac ggg ccc gac ggg ctg ccc tac ctc aag gtt	300	305	310	1206	
Lys Asn Gly Ser Lys Tyr Gly Pro Asp Gly Leu Pro Tyr Leu Lys Val					
ctc aag gcc gcc ggt gtt aac acc acg gac aaa gag att gag gtt ctc	315	320	325	1254	
Leu Lys Ala Ala Gly Val Asn Thr Thr Asp Lys Glu Ile Glu Val Leu					
tat att cgg aat gta act ttt gag gac gct ggg gaa tat acg tgc ttg	330	335	340	1302	
Tyr Ile Arg Asn Val Thr Phe Glu Asp Ala Gly Glu Tyr Thr Cys Leu					
gcg ggt aat tct att ggg ata tcc ttt cac tct gca tgg ttg aca gtt	345	350	355	1350	
Ala Gly Asn Ser Ile Gly Ile Ser Phe His Ser Ala Trp Leu Thr Val					
ctg cca gcg cct gga aga gaa aag gag att aca gct tcc cca gac tac	360	365	370	375	1398
Leu Pro Ala Pro Gly Arg Glu Lys Glu Ile Thr Ala Ser Pro Asp Tyr					
ctg gag ata gcc att tac tgc ata ggg gtc ttc tta atc gcc tgt atg	380	385	390	1446	
Leu Glu Ile Ala Ile Tyr Cys Ile Gly Val Phe Leu Ile Ala Cys Met					
gtg gta aca gtc atc ctg tgc cga atg aag aac acg acc aag aag cca	395	400	405	1494	
Val Val Thr Val Ile Leu Cys Arg Met Lys Asn Thr Thr Lys Lys Pro					
gac ttc agc agc cag ccg gct gtg cac aag ctg acc aaa cgt atc ccc	410	415	420	1542	
Asp Phe Ser Ser Gln Pro Ala Val His Lys Leu Thr Lys Arg Ile Pro					
ctg cgg aga cag gta aca gtt tcg gct gag tcc agc tcc tcc atg aac	425	430	435	1590	
Leu Arg Arg Gln Val Thr Val Ser Ala Glu Ser Ser Ser Met Asn					
tcc aac acc ccg ctg gtg agg ata aca aca cgc ctc tct tca acg gca	440	445	450	1638	
Ser Asn Thr Pro Leu Val Arg Ile Thr Thr Arg Leu Ser Ser Thr Ala					

gac acc ccc atg ctg gca ggg gtc tcc gag tat gaa ctt cca gag gac Asp Thr Pro Met Leu Ala Gly Val Ser Glu Tyr Glu Leu Pro Glu Asp	460	465	470	1686	
cca aaa tgg gag ttt cca aga gat aag ctg aca ctg ggc aag ccc ctg Pro Lys Trp Glu Phe Pro Arg Asp Lys Leu Thr Leu Gly Lys Pro Leu	475	480	485	1734	
gga gaa ggt tgc ttt ggg caa gtg gtc atg gcg gaa gca gtg gga att Gly Glu Gly Cys Phe Gly Gln Val Val Met Ala Glu Ala Val Gly Ile	490	495	500	1782	
gac aaa gac aag ccc aag gag gcg gtc acc gtg gcc gtg aag atg ttg Asp Lys Asp Lys Pro Lys Glu Ala Val Thr Val Ala Val Lys Met Leu	505	510	515	1830	
aaa gat gat gcc aca gag aaa gac ctt tct gat ctg gtg tca gag atg Lys Asp Asp Ala Thr Glu Lys Asp Leu Ser Asp Leu Val Ser Glu Met	520	525	530	535	1878
gag atg atg aag atg att ggg aaa cac aag aat atc ata aat ctt ctt Glu Met Met Lys Met Ile Gly Lys His Lys Asn Ile Ile Asn Leu Leu	540	545	550	1926	
gga gcc tgc aca cag gat ggg cct ctc tat gtc ata gtt gag tat gcc Gly Ala Cys Thr Gln Asp Gly Pro Leu Tyr Val Ile Val Glu Tyr Ala	555	560	565	1974	
tct aaa ggc aac ctc cga gaa tac ctc cga gcc cgg agg cca ccc ggg Ser Lys Gly Asn Leu Arg Glu Tyr Leu Arg Ala Arg Arg Pro Pro Gly	570	575	580	2022	
atg gag tac tcc tat gac att aac cgt gtt cct gag gag cag atg acc Met Glu Tyr Ser Tyr Asp Ile Asn Arg Val Pro Glu Glu Gln Met Thr	585	590	595	2070	
ttc aag gac ttg gtg tca tgc acc tac cag ctg gcc aga ggc atg gag Phe Lys Asp Leu Val Ser Cys Thr Tyr Gln Leu Ala Arg Gly Met Glu	600	605	610	615	2118
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Val Leu Val Thr Glu Asn Asn Val Met Lys Ile Ala Asp Phe Gly Leu
635 640 645

gcc aga gat atc aac aat ata gac tat tac aaa aag acc acc aat ggg 2262
Ala Arg Asp Ile Asn Asn Ile Asp Tyr Tyr Lys Thr Thr Asn Gly
650 655 660

cgg ctt cca gtc aag tgg atg gct cca gaa gcc ctg ttt gat aga gta 2310
Arg Leu Pro Val Lys Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Val
665 670 675

tac act cat cag agt gat gtc tgg tcc ttc ggg gtg tta atg tgg gag 2358
Tyr Thr His Gln Ser Asp Val Trp Ser Phe Gly Val Leu Met Trp Glu
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700 705 710

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Leu Phe Lys Leu Leu Lys Glu Gly His Arg Met Asp Lys Pro Ala Asn
715 720 725

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Cys Thr Asn Glu Leu Tyr Met Met Arg Asp Cys Trp His Ala Val
730 735 740

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Pro Ser Gln Arg Pro Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg
745 750 755

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Ile Leu Thr Leu Thr Asn Glu Glu Tyr Leu Asp Leu Ser Gln Pro
760 765 770 775

ctc gaa cag tat tca cct agt tac cct gac aca aga agt tct tgt tct 2646
Leu Glu Gln Tyr Ser Pro Ser Tyr Pro Asp Thr Arg Ser Ser Cys Ser
780 785 790

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Ser Gly Asp Asp Ser Val Phe Ser Pro Asp Pro Met Pro Tyr Glu Pro
795 800 805

tgc ctt cct cag tat cca cac ata aac ggc agt gtt aaa aca tga 2739
Cys Leu Pro Gln Tyr Pro His Ile Asn Gly Ser Val Lys Thr
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Met Val Ser Trp Gly Arg Phe Ile Cys Leu Val Leu Val Thr
1 5 10
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Met Ala Thr Leu Ser Leu Ala Arg Pro Ser Phe Ser Leu Val Glu Asp
15 20 25 30
acc act tta gaa cca gaa gag cca cca acc aaa tac caa atc tcc caa 744

Thr Thr Leu Glu Pro Glu Glu Pro Pro Thr Lys Tyr Gln Ile Ser Gln
 35 40 45

cca gaa gcg tac gtg gtt gcc ccc ggg gaa tcg cta gag ttg cag tgc 792
 Pro Glu Ala Tyr Val Val Ala Pro Gly Glu Ser Leu Glu Leu Gln Cys
 50 55 60

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 Met Leu Lys Asp Ala Ala Val Ile Ser Trp Thr Lys Asp Gly Val His
 65 70 75

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 Leu Gly Pro Asn Asn Arg Thr Val Leu Ile Gly Glu Tyr Leu Gln Ile
 80 85 90

aaa ggt gcc aca cct aga gac tcc ggc ctc tat gct tgt act gca gct 936
 Lys Gly Ala Thr Pro Arg Asp Ser Gly Leu Tyr Ala Cys Thr Ala Ala
 95 100 105 110

agg acg gta gac agt gaa act tgg atc ttc atg gtg aat gtc aca gat 984
 Arg Thr Val Asp Ser Glu Thr Trp Ile Phe Met Val Asn Val Thr Asp
 115 120 125

gcc atc tca tct gga gat gat gag gac gac aca gat agc tcc gaa gac 1032
 Ala Ile Ser Ser Gly Asp Asp Glu Asp Asp Thr Asp Ser Ser Glu Asp
 130 135 140

gtt gtc agt gag aac agg agc aac cag aga gca ccg tac tgg acc aac 1080
 Val Val Ser Glu Asn Arg Ser Asn Gln Arg Ala Pro Tyr Trp Thr Asn
 145 150 155

acc gag aag atg gag aag cgg ctc cac gct tgt cct gcc gac aac act 1128
 Thr Glu Lys Met Glu Lys Arg Leu His Ala Cys Pro Ala Ala Asn Thr
 160 165 170

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 175 180 185 190

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 Trp Leu Lys Asn Gly Lys Glu Phe Lys Gln Glu His Arg Ile Gly Gly
 195 200 205

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Tyr Lys Val Arg Asn Gln His Trp Ser Leu Ile Met Glu Ser Val Val
 210 215 220
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 Pro Ser Asp Lys Gly Asn Tyr Thr Cys Leu Val Glu Asn Glu Tyr Gly
 225 230 235
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 275 280 285
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 Pro Asp Gly Leu Pro Tyr Leu Lys Val Leu Lys Ala Ala Gly Val Asn
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 Thr Thr Asp Lys Glu Ile Glu Val Leu Tyr Ile Arg Asn Val Thr Phe
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 335 340 345 350
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 Ser Phe His Ser Ala Trp Leu Thr Val Leu Pro Ala Pro Val Arg Glu
 355 360 365
 aag gag atc acg gct tcc cca gat tat ctg gag ata gct att tac tgc 1752
 Lys Glu Ile Thr Ala Ser Pro Asp Tyr Leu Glu Ile Ala Ile Tyr Cys
 370 375 380
 ata ggg gtc ttc tta atc gcc tgc atg gtg gtg aca gtc atc ttt tgc 1800

Ile Gly Val Phe Leu Ile Ala Cys Met Val Val Thr Val Ile Phe Cys			
385	390	395	
cga atg aag acc acg acc aag aag cca gac ttc agc agc cag cca gct			1848
Arg Met Lys Thr Thr Lys Lys Pro Asp Phe Ser Ser Gln Pro Ala			
400	405	410	
gtg cac aag ctg acc aag cgc atc ccc ctg cgg aga cag gta aca gtt			1896
Val His Lys Leu Thr Lys Arg Ile Pro Leu Arg Arg Gln Val Thr Val			
415	420	425	430
tcg gcc gag tcc agc tcc tcc atg aac tcc aac acc ccg ctg gtg agg			1944
Ser Ala Glu Ser Ser Ser Met Asn Ser Asn Thr Pro Leu Val Arg			
435	440	445	
ata aca acg cgt ctg tcc tca aca gcg gac acc ccg atg cta gca ggg			1992
Ile Thr Thr Arg Leu Ser Ser Thr Ala Asp Thr Pro Met Leu Ala Gly			
450	455	460	
gtc tcc gag tat gag ttg cca gag gat cca aag tgg gaa ttc ccc aga			2040
Val Ser Glu Tyr Glu Leu Pro Glu Asp Pro Lys Trp Glu Phe Pro Arg			
465	470	475	
gat aag ctg acg ctg ggc aaa ccc ctg ggg gaa ggt tgc ttc ggg caa			2088
Asp Lys Leu Thr Leu Gly Lys Pro Leu Gly Glu Gly Cys Phe Gly Gln			
480	485	490	
gta gtc atg gct gaa gca gtg gga atc gat aaa gac aaa ccc aag gag			2136
Val Val Met Ala Glu Ala Val Gly Ile Asp Lys Asp Lys Pro Lys Glu			
495	500	505	510
gcg gtc acc gtg gca gtg aag atg ttg aaa gat gat gcc aca gag aag			2184
Ala Val Thr Val Ala Val Lys Met Leu Lys Asp Asp Ala Thr Glu Lys			
515	520	525	
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Asp Leu Ser Asp Leu Val Ser Glu Met Glu Met Met Lys Met Ile Gly			
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aaa cat aag aac att atc aac ctc ctg ggg gcc tgc acg cag gat gga			2280
Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala Cys Thr Gln Asp Gly			
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cct ctc tac gtc ata gtt gaa tat gca tcg aaa ggc aac ctc cgg gaa			2328

Pro Leu Tyr Val Ile Val Glu Tyr Ala Ser Lys Gly Asn Leu Arg Glu			
560	565	570	
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Tyr Leu Arg Ala Arg Arg Pro Pro Gly Met Glu Tyr Ser Tyr Asp Ile			
575	580	585	590
aac cgt gtc ccc gag gag cag atg acc ttc aag gac ttg gtg tcc tgc			2424
Asn Arg Val Pro Glu Glu Gln Met Thr Phe Lys Asp Leu Val Ser Cys			
595	600	605	
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Thr Tyr Gln Leu Ala Arg Gly Met Glu Tyr Leu Ala Ser Gln Lys Cys			
610	615	620	
atc cat cga gat ttg gct gcc aga aac gtg ttg gta aca gaa aac aat			2520
Ile His Arg Asp Leu Ala Arg Asn Val Leu Val Thr Glu Asn Asn			
625	630	635	
gtg atg aag ata gca gac ttt ggc ctg gcc agg gat atc aac aac ata			2568
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Trp Ser Phe Gly Val Leu Met Trp Glu Ile Phe Thr Leu Gly Gly Ser			
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Pro Tyr Pro Gly Ile Pro Val Glu Glu Leu Phe Lys Leu Leu Lys Glu			
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His Arg Met Asp Lys Pro Ala Asn Cys Thr Asn Glu Leu Tyr Met Met			
725	730	735	
atg agg gac tgt tgg cat gca gtg ccc tcc cag aga cca acg ttc aag			2674
Met Arg Asp Cys Trp His Ala Val Pro Ser Gln Arg Pro Thr Phe Lys			
740	745	750	
cag ttg gta gaa gac ttg gat cga att ctc act ctc aca acc aat gag			2722

Gln Leu Val Glu Asp Leu Asp Arg Ile Leu Thr Leu Thr Thr Asn Glu
755 760 765

cga att ctc act ctc aca acc aat gag aac ttc cag agc acc tca gga 2770
Arg Ile Leu Thr Leu Thr Thr Asn Glu Asn Phe Gln Ser Thr Ser Gly
770 775 780

aga gag ggc acg gag att cat gct ctt caa tgc ctc aga tcg gaa gta 2818
Arg Glu Gly Thr Glu Ile His Ala Leu Gln Cys Leu Arg Ser Glu Val
785 790 795 800

aca cct gcc att tcc tgt gag agc cca ttg gct gac act ggt tcc aag 2866
Thr Pro Ala Ile Ser Cys Glu Ser Pro Leu Ala Asp Thr Gly Ser Lys
805 810 815

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 Met Val Ser Trp Gly Arg Phe Ile Cys Leu Val Val Val Thr Met Ala
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acc ttg tcc ctg gcc cgg ccc tcc ttc agt tta gtt gag gat acc aca 514
 Thr Leu Ser Leu Ala Arg Pro Ser Phe Ser Leu Val Glu Asp Thr Thr
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tta gag cca gaa gag cca cca acc aaa tac caa atc tct caa cca gaa 562
 Leu Glu Pro Glu Glu Pro Pro Thr Lys Tyr Gln Ile Ser Gln Pro Glu
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gtg tac gtg gct gcg cca ggg gag tcg cta gag gtg cgc tgc ctg ttg 610
 Val Tyr Val Ala Ala Pro Gly Glu Ser Leu Glu Val Arg Cys Leu Leu
 50 55 60

aaa gat gcc gcc gtg atc agt tgg act aag gat ggg gtg cac ttg ggg 658
 Lys Asp Ala Ala Val Ile Ser Trp Thr Lys Asp Gly Val His Leu Gly
 65 70 75 80

ccc aac aat agg aca gtg ctt att ggg gag tac ttg cag ata aag ggc 706
 Pro Asn Asn Arg Thr Val Leu Ile Gly Glu Tyr Leu Gln Ile Lys Gly
 85 90 95

gcc aca cct aga gac tcc ggc ctc tat gct tgt act gcc agt agg act 754
 Ala Thr Pro Arg Asp Ser Gly Leu Tyr Ala Cys Thr Ala Ser Arg Thr
 100 105 110

gta gac agt gaa act tgg tac ttc atg gtg aat gtc aca gat gcc atc 802
 Val Asp Ser Glu Thr Trp Tyr Phe Met Val Asn Val Thr Asp Ala Ile
 115 120 125

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 Ser Ser Gly Asp Asp Glu Asp Asp Thr Asp Gly Ala Glu Asp Phe Val
 130 135 140

agt gag aac agt aac aac aag aga gca cca tac tgg acc aac aca gaa 898
 Ser Glu Asn Ser Asn Asn Lys Arg Ala Pro Tyr Trp Thr Asn Thr Glu
 145

145	150	155	160	
aag atg gaa aag cgg ctc cat gct gtg cct gcg gcc aac act gtc aag				946
Lys Met Glu Lys Arg Leu His Ala Val Pro Ala Ala Asn Thr Val Lys				
165	170	175		
ttt cgc tgc cca gcc ggg ggg aac cca atg cca acc atg cgg tgg ctg				994
Phe Arg Cys Pro Ala Gly Gly Asn Pro Met Pro Thr Met Arg Trp Leu				
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aaa aac ggg aag gag ttt aag cag gag cat cgc att gga ggc tac aag				1042
Lys Asn Gly Lys Glu Phe Lys Gln Glu His Arg Ile Gly Gly Tyr Lys				
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Val Arg Asn Gln His Trp Ser Leu Ile Met Glu Ser Val Val Pro Ser				
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Asp Lys Gly Asn Tyr Thr Cys Val Val Glu Asn Glu Tyr Gly Ser Ile				
225	230	235	240	
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Asn His Thr Tyr His Leu Asp Val Val Glu Arg Ser Pro His Arg Pro				
245	250	255		
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Ile Leu Gln Ala Gly Leu Pro Ala Asn Ala Ser Thr Val Val Gly Gly				
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gac gta gag ttt gtc tgc aag gtt tac agt gat gcc cag ccc cac atc				1282
Asp Val Glu Phe Val Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile				
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Gln Trp Ile Lys His Val Glu Lys Asn Gly Ser Lys Tyr Gly Pro Asp				
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Gly Leu Pro Tyr Leu Lys Val Leu Lys His Ser Gly Ile Asn Ser Ser				
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Asn Ala Glu Val Leu Ala Leu Phe Asn Val Thr Glu Ala Asp Ala Gly				

325	330	335	
			1474
gaa tat ata tgt aag gtc tcc aat tat ata ggg cag gcc aac cag tct			
Glu Tyr Ile Cys Lys Val Ser Asn Tyr Ile Gly Gln Ala Asn Gln Ser			
340	345	350	
			1522
gcc tgg ctc act gtc ctg cca aaa cag caa gcg cct gga aga gaa aag			
Ala Trp Leu Thr Val Leu Pro Lys Gln Gln Ala Pro Gly Arg Glu Lys			
355	360	365	
			1570
gag att aca gct tcc cca gac tac ctg gag ata gcc att tac tgc ata			
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385	390	395	400
			1666
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Met Lys Asn Thr Thr Lys Lys Pro Asp Phe Ser Ser Gln Pro Ala Val			
405	410	415	
			1714
cac aag ctg acc aaa cgt atc ccc ctg cgg aga cag gta aca gtt tcg			
His Lys Leu Thr Lys Arg Ile Pro Leu Arg Arg Gln Val Thr Val Ser			
420	425	430	
			1762
gct gag tcc agc tcc tcc atg aac tcc aac acc ccg ctg gtg agg ata			
Ala Glu Ser Ser Ser Met Asn Ser Asn Thr Pro Leu Val Arg Ile			
435	440	445	
			1810
aca aca cgc ctc tct tca acg gca gac acc ccc atg ctg gca ggg gtc			
Thr Thr Arg Leu Ser Ser Thr Ala Asp Thr Pro Met Leu Ala Gly Val			
450	455	460	
			1858
tcc gag tat gaa ctt cca gag gac cca aaa tgg gag ttt cca aga gat			
Ser Glu Tyr Glu Leu Pro Glu Asp Pro Lys Trp Glu Phe Pro Arg Asp			
465	470	475	480
			1906
aag ctg aca ctg ggc aag ccc ctg gga gaa ggt tgc ttt ggg caa gtg			
Lys Leu Thr Leu Gly Lys Pro Leu Gly Glu Gly Cys Phe Gly Gln Val			
485	490	495	
			1954
gtc atg gcg gaa gca gtg gga att gac aaa gac aag ccc aag gag gcg			
Val Met Ala Glu Ala Val Gly Ile Asp Lys Asp Lys Pro Lys Glu Ala			

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gtc acc gtg gcc gtg aag atg ttg aaa gat gat gcc aca gag aaa gac			2002													
Val	Thr	Val	Ala	Val	Lys	Met	Leu	Lys	Asp	Asp	Ala	Thr	Glu	Lys	Asp	
515		520		525												
ctt tct gat ctg gtg tca gag atg gag atg atg aag atg att ggg aaa			2050													
Leu	Ser	Asp	Leu	Val	Ser	Glu	Met	Glu	Met	Met	Lys	Met	Ile	Gly	Lys	
530		535		540												
cac aag aat atc ata aat ctt ctt gga gcc tgc aca cag gat ggg cct			2098													
His	Lys	Asn	Ile	Ile	Asn	Leu	Leu	Gly	Ala	Cys	Thr	Gln	Asp	Gly	Pro	
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ctc tat gtc ata gtt gag tat gcc tct aaa ggc aac ctc cga gaa tac			2146													
Leu	Tyr	Val	Ile	Val	Glu	Tyr	Ala	Ser	Lys	Gly	Asn	Leu	Arg	Glu	Tyr	
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ctc cga gcc cggtt cca ccc ggg atg gag tac tcc tat gac att aac			2194													
Leu	Arg	Ala	Arg	Arg	Pro	Pro	Gly	Met	Glu	Tyr	Ser	Tyr	Asp	Ile	Asn	
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cgt gtt cct gag gag cag atg acc ttc aag gac ttg gtg tca tgc acc			2242													
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Tyr	Gln	Leu	Ala	Arg	Arg	Met	Glu	Tyr	Leu	Ala	Ser	Gln	Lys	Cys	Ile	
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cat cga gat tta gca gcc aga aat gtt ttg gta aca gaa aac aat gtg			2338													
His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Val	Leu	Val	Thr	Glu	Asn	Asn	Val	
625		630		635		640										
atg aaa ata gca gac ttt gga ctc gcc aga gat atc aac aat ata gac			2386													
Met	Lys	Ile	Ala	Asp	Phe	Gly	Leu	Ala	Arg	Asp	Ile	Asn	Asn	Ile	Asp	
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tat tac aaa aag acc acc aat ggg cggtt cca gtc aag tgg atg gct			2434													
Tyr	Tyr	Lys	Lys	Thr	Thr	Asn	Gly	Arg	Leu	Pro	Val	Lys	Trp	Met	Ala	
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cca gaa gcc ctg ttt gat aga gta tac act cat cag agt gat gtc tgg			2482													
Pro	Glu	Ala	Leu	Phe	Asp	Arg	Val	Tyr	Thr	His	Gln	Ser	Asp	Val	Trp	

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690	695	700	
tac cca ggg att ccc gtg gag gaa ctt ttt aag ctg ctg aag gaa gga			2578
Tyr Pro Gly Ile Pro Val Glu Glu Leu Phe Lys Leu Leu Lys Glu Gly			
705	710	715	720
cac aga atg gat aag cca gcc aac tgc acc aac gaa ctg tac atg atg			2626
His Arg Met Asp Lys Pro Ala Asn Cys Thr Asn Glu Leu Tyr Met Met			
725	730	735	
atg agg gac tgt tgg cat gca gtg ccc tcc cag aga cca acg ttc aag			2674
Met Arg Asp Cys Trp His Ala Val Pro Ser Gln Arg Pro Thr Phe Lys			
740	745	750	
cag ttg gta gaa gac ttg gat cga att ctc act ctc aca acc aat gag			2722
Gln Leu Val Glu Asp Leu Asp Arg Ile Leu Thr Leu Thr Asn Glu			
755	760	765	
cct cta tcc tga agagcggtgg accctggagc tgctggccac atcttgatct			2774
Pro Leu Ser			
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Leu Glu Pro Glu Glu Pro Pro Thr Lys Tyr Gln Ile Ser Gln Pro Glu
35 40 45

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Val Tyr Val Ala Ala Pro Gly Glu Ser Leu Glu Val Arg Cys Leu Leu
50 55 60

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Lys Asp Ala Ala Val Ile Ser Trp Thr Lys Asp Gly Val His Leu Gly
65 70 75 80

ccc aac aat agg aca gtg ctt att ggg gag tac ttg cag ata aag ggc 706
Pro Asn Asn Arg Thr Val Leu Ile Gly Glu Tyr Leu Gln Ile Lys Gly
85 90 95

gcc aca cct aga gac tcc ggc ctc tat gct tgt act gcc agt agg act 754
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100 105 110

gta gac agt gaa act tgg tac ttc atg gtg aat gtc aca gat gcc atc 802

Val Asp Ser Glu Thr Trp Tyr Phe Met Val Asn Val Thr Asp Ala Ile			
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Ser Ser Gly Asp Asp Glu Asp Asp Thr Asp Gly Ala Glu Asp Phe Val			
130	135	140	
agt gag aac agt aac aac aag aga gca cca tac tgg acc aac aca gaa			898
Ser Glu Asn Ser Asn Asn Lys Arg Ala Pro Tyr Trp Thr Asn Thr Glu			
145	150	155	160
aag atg gaa aag cgg ctc cat gct gtg cct gcg gcc aac act gtc aag			946
Lys Met Glu Lys Arg Leu His Ala Val Pro Ala Ala Asn Thr Val Lys			
165	170	175	
ttt cgc tgc cca gcc ggg ggg aac cca atg cca acc atg cgg tgg ctg			994
Phe Arg Cys Pro Ala Gly Gly Asn Pro Met Pro Thr Met Arg Trp Leu			
180	185	190	
aaa aac ggg aag gag ttt aag cag gag cat cgc att gga ggc tac aag			1042
Lys Asn Gly Lys Glu Phe Lys Gln Glu His Arg Ile Gly Gly Tyr Lys			
195	200	205	
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Val Arg Asn Gln His Trp Ser Leu Ile Met Glu Ser Val Val Pro Ser			
210	215	220	
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Asp Lys Gly Asn Tyr Thr Cys Val Val Glu Asn Glu Tyr Gly Ser Ile			
225	230	235	240
aat cac acg tac ca c ctg gat gtt gtg gag cga tcg cct cac cgg ccc			1186
Asn His Thr Tyr His Leu Asp Val Val Glu Arg Ser Pro His Arg Pro			
245	250	255	
atc ctc caa gcc gga ctg ccg gca aat gcc tcc aca gtg gtc gga gga			1234
Ile Leu Gln Ala Gly Leu Pro Ala Asn Ala Ser Thr Val Val Gly Gly			
260	265	270	
gac gta gag ttt gtc tgc aag gtt tac agt gat gcc cag ccc cac atc			1282
Asp Val Glu Phe Val Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile			
275	280	285	
cag tgg atc aag cac gtg gaa aag aac ggc agt aaa tac ggg ccc gac			1330

Gln	Trp	Ile	Lys	His	Val	Glu	Lys	Asn	Gly	Ser	Lys	Tyr	Gly	Pro	Asp	
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Gly	Leu	Pro	Tyr	Leu	Lys	Val	Leu	Lys	His	Ser	Gly	Ile	Asn	Ser	Ser	
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aat gca gaa gtg ctg gct ctg ttc aat gtg acc gag gcg gat gct ggg															1426	
Asn	Ala	Glu	Val	Leu	Ala	Leu	Phe	Asn	Val	Thr	Glu	Ala	Asp	Ala	Gly	
									330				335			
gaa tat ata tgt aag gtc tcc aat tat ata ggg cag gcc aac cag tct															1474	
Glu	Tyr	Ile	Cys	Lys	Val	Ser	Asn	Tyr	Ile	Gly	Gln	Ala	Asn	Gln	Ser	
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gcc tgg ctc act gtc ctg cca aaa cag caa gcg cct gga aga gaa aag															1522	
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gag att aca gct tcc cca gac tac ctg gag ata gcc att tac tgc ata															1570	
Glu	Ile	Thr	Ala	Ser	Pro	Asp	Tyr	Leu	Glu	Ile	Ala	Ile	Tyr	Cys	Ile	
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Gly	Val	Phe	Leu	Ile	Ala	Cys	Met	Val	Val	Thr	Val	Ile	Leu	Cys	Arg	
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Met	Lys	Asn	Thr	Thr	Lys	Lys	Pro	Asp	Phe	Ser	Ser	Gln	Pro	Ala	Val	
							405			410			415			
cac aag ctg acc aaa cgt atc ccc ctg cgg aga cag gta aca gtt tcg															1714	
His	Lys	Leu	Thr	Lys	Arg	Ile	Pro	Leu	Arg	Arg	Gln	Val	Thr	Val	Ser	
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gct gag tcc agc tcc tcc atg aac tcc aac acc ccg ctg gtg agg ata															1762	
Ala	Glu	Ser	Ser	Ser	Met	Asn	Ser	Asn	Thr	Pro	Leu	Val	Arg	Ile		
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Thr	Thr	Arg	Leu	Ser	Ser	Thr	Ala	Asp	Thr	Pro	Met	Leu	Ala	Gly	Val	
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 Lys Leu Thr Leu Gly Lys Pro Leu Gly Glu Gly Cys Phe Gly Gln Val
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 610 615 620
 cat cga gat tta gca gcc aga aat gtt ttg gta aca gaa aac aat gtg 2338
 His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Thr Glu Asn Asn Val
 625 630 635 640
 atg aaa ata gca gac ttt gga ctc gcc aga gat atc aac aat ata gac 2386

Met Lys Ile Ala Asp Phe Gly Leu Ala Arg Asp Ile Asn Asn Ile Asp			
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Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu Pro Val Lys Trp Met Ala			
660	665	670	
cca gaa gcc ctg ttt gat aga gta tac act cat cag agt gat gtc tgg			2482
Pro Glu Ala Leu Phe Asp Arg Val Tyr Thr His Gln Ser Asp Val Trp			
675	680	685	
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Ser Phe Gly Val Leu Met Trp Glu Ile Phe Thr Leu Gly Ser Pro			
690	695	700	
tac cca ggg att ccc gtg gag gaa ctt ttt aag ctg ctg aag gaa gga			2578
Tyr Pro Gly Ile Pro Val Glu Glu Leu Phe Lys Leu Leu Lys Glu Gly			
705	710	715	720
cac aga atg gat aag cca gcc aac tgc acc aac gaa ctg tac atg atg			2626
His Arg Met Asp Lys Pro Ala Asn Cys Thr Asn Glu Leu Tyr Met Met			
725	730	735	
atg agg gac tgt tgg cat gca gtg ccc tcc cag aga cca acg ttc aag			2674
Met Arg Asp Cys Trp His Ala Val Pro Ser Gln Arg Pro Thr Phe Lys			
740	745	750	
cag ttg gta gaa gac ttg gat cga att ctc act ctc aca acc aat gag			2722
Gln Leu Val Glu Asp Leu Asp Arg Ile Leu Thr Leu Thr Asn Glu			
755	760	765	
cgg tac aag ctg ctt ccc tgt cct gac aag cac aat aaa agg tgc aaa			2770
Arg Tyr Lys Leu Leu Pro Cys Pro Asp Lys His Asn Lys Arg Cys Lys			
770	775	780	
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Pro Glu Glu Arg Gly Asp Leu Thr Glu Ala Gly Ala Ala Gly Ser Ser			
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Arg Cys Val Asp Ser Arg Lys Arg Val Arg Gln Glu Lys Ile Ser Thr			
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Gly

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<220>
<221> CDS
<222> (419)...(2725)

<400> 21
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caaatccgag ggcagccgc gggcgcatg gcgccttcc gcagcctggg gtacgcgtga 120
agcccccggag gcttggcgcc ggccaagacc caaggaccac tcttctgcgt ttggagttgc 180
tcccccaac cccgggctcg tcgcattctc catcccacc cacgcggggc cggggacaac 240
acaggtcgcg gaggagcggtt gccattcaag tgactgcagc agcagcgcag cgcctcggtt 300
cctgagccca ccgcagctga aggattgcg cgtagtcat gcccgttagag gaagtgtgca 360
gatggattt acgtccacat ggagatatgg aagaggaccg gggattggta ccgttaacc 418

atg gtc agc tgg ggt cgt ttc atc tgc ctg gtc gtg gtc acc atg gca 466
Met Val Ser Trp Gly Arg Phe Ile Cys Leu Val Val Val Thr Met Ala
1 5 10 15

acc ttg tcc ctg gcc cgg ccc tcc ttc agt tta gtt gag gat acc aca 514
Thr Leu Ser Leu Ala Arg Pro Ser Phe Ser Leu Val Glu Asp Thr Thr
20 25 30

tta gag cca gaa gag cca cca acc aaa tac caa atc tct caa cca gaa 562
Leu Glu Pro Glu Glu Pro Pro Thr Lys Tyr Gln Ile Ser Gln Pro Glu

35	40	45														
gtg tac gtg gct gcg cca ggg gag tcg cta gag gtg cgc tgc ctg ttg			610													
Val	Tyr	Val	Ala	Ala	Pro	Gly	Glu	Ser	Leu	Glu	Val	Arg	Cys	Leu	Leu	
50		55								60						
aaa gat gcc gcc gtg atc agt tgg act aag gat ggg gtg cac ttg ggg			658													
Lys	Asp	Ala	Ala	Val	Ile	Ser	Trp	Thr	Lys	Asp	Gly	Val	His	Leu	Gly	
65		70								75				80		
ccc aac aat agg aca gtg ctt att ggg gag tac ttg cag ata aag ggc			706													
Pro	Asn	Asn	Arg	Thr	Val	Leu	Ile	Gly	Glu	Tyr	Leu	Gln	Ile	Lys	Gly	
85		90												95		
gcc aca cct aga gac tcc ggc ctc tat gct tgt act gcc agt agg act			754													
Ala	Thr	Pro	Arg	Asp	Ser	Gly	Leu	Tyr	Ala	Cys	Thr	Ala	Ser	Arg	Thr	
100		105												110		
gta gac agt gaa act tgg tac ttc atg gtg aat gtc aca gat gcc atc			802													
Val	Asp	Ser	Glu	Thr	Trp	Tyr	Phe	Met	Val	Asn	Val	Thr	Asp	Ala	Ile	
115		120												125		
tca tcc gga gat gat gag gat gac acc gat ggt gcg gaa gat ttt gtc			850													
Ser	Ser	Gly	Asp	Asp	Glu	Asp	Asp	Thr	Asp	Gly	Ala	Glu	Asp	Phe	Val	
130		135												140		
agt gag aac agt aac aac aag aga gca cca tac tgg acc aac aca gaa			898													
Ser	Glu	Asn	Ser	Asn	Asn	Lys	Arg	Ala	Pro	Tyr	Trp	Thr	Asn	Thr	Glu	
145		150												155		160
aag atg gaa aag cgg ctc cat gct gtg cct gcg gcc aac act gtc aag			946													
Lys	Met	Glu	Lys	Arg	Leu	His	Ala	Val	Pro	Ala	Ala	Asn	Thr	Val	Lys	
165		170												175		
ttt cgc tgc cca gcc ggg ggg aac cca atg cca acc atg cgg tgg ctg			994													
Phe	Arg	Cys	Pro	Ala	Gly	Gly	Asn	Pro	Met	Pro	Thr	Met	Arg	Trp	Leu	
180		185												190		
aaa aac ggg aag gag ttt aag cag gag cat cgc att gga ggc tac aag			1042													
Lys	Asn	Gly	Lys	Glu	Phe	Lys	Gln	Glu	His	Arg	Ile	Gly	Gly	Tyr	Lys	
195		200												205		
gta cga aac cag cac tgg agc ctc att atg gaa agt gtg gtc cca tct			1090													
Val	Arg	Asn	Gln	His	Trp	Ser	Leu	Ile	Met	Glu	Ser	Val	Val	Pro	Ser	

210	215	220	
gac aag gga aat tat acc tgt gta gtg gag aat gaa tac ggg tcc atc			1138
Asp Lys Gly Asn Tyr Thr Cys Val Val Glu Asn Glu Tyr Gly Ser Ile			
225	230	235	240
aat cac acg tac cac ctg gat gtt gtg gag cga tcg cct cac cgg ccc			1186
Asn His Thr Tyr His Leu Asp Val Val Glu Arg Ser Pro His Arg Pro			
245	250		255
atc ctc caa gcc gga ctg ccg gca aat gcc tcc aca gtg gtc gga gga			1234
Ile Leu Gln Ala Gly Leu Pro Ala Asn Ala Ser Thr Val Val Gly Gly			
260	265		270
gac gta gag ttt gtc tgc aag gtt tac agt gat gcc cag ccc cac atc			1282
Asp Val Glu Phe Val Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile			
275	280		285
cag tgg atc aag cac gtg gaa aag aac ggc agt aaa tac ggg ccc gac			1330
Gln Trp Ile Lys His Val Glu Lys Asn Gly Ser Lys Tyr Gly Pro Asp			
290	295		300
ggg ctg ccc tac ctc aag gtt ctc aag cac tcg ggg ata aat agt tcc			1378
Gly Leu Pro Tyr Leu Lys Val Leu Lys His Ser Gly Ile Asn Ser Ser			
305	310	315	320
aat gca gaa gtg ctg gct ctg ttc aat gtg acc gag gcg gat gct ggg			1426
Asn Ala Glu Val Leu Ala Leu Phe Asn Val Thr Glu Ala Asp Ala Gly			
325	330		335
gaa tat ata tgt aag gtc tcc aat tat ata ggg cag gcc aac cag tct			1474
Glu Tyr Ile Cys Lys Val Ser Asn Tyr Ile Gly Gln Ala Asn Gln Ser			
340	345		350
gcc tgg ctc act gtc ctg cca aaa cag caa gcg cct gga aga gaa aag			1522
Ala Trp Leu Thr Val Leu Pro Lys Gln Gln Ala Pro Gly Arg Glu Lys			
355	360		365
gag att aca gct tcc cca gac tac ctg gag ata gcc att tac tgc ata			1570
Glu Ile Thr Ala Ser Pro Asp Tyr Leu Glu Ile Ala Ile Tyr Cys Ile			
370	375		380
ggg gtc ttc tta atc gcc tgt atg gtg gta aca gtc atc ctg tgc cga			1618
Gly Val Phe Leu Ile Ala Cys Met Val Val Thr Val Ile Leu Cys Arg			

385	390	395	400	
atg aag aac acg acc aag aag cca gac ttc agc agc cag ccg gct gtg Met Lys Asn Thr Thr Lys Lys Pro Asp Phe Ser Ser Gln Pro Ala Val				1666
405	410	415		
cac aag ctg acc aaa cgt atc ccc ctg cgg aga cag gta aca gtt tcg His Lys Leu Thr Lys Arg Ile Pro Leu Arg Arg Gln Val Thr Val Ser				1714
420	425	430		
gct gag tcc agc tcc tcc atg aac tcc aac acc ccg ctg gtg agg ata Ala Glu Ser Ser Ser Met Asn Ser Asn Thr Pro Leu Val Arg Ile				1762
435	440	445		
aca aca cgc ctc tct tca acg gca gac acc ccc atg ctg gca ggg gtc Thr Thr Arg Leu Ser Ser Thr Ala Asp Thr Pro Met Leu Ala Gly Val				1810
450	455	460		
tcc gag tat gaa ctt cca gag gac cca aaa tgg gag ttt cca aga gat Ser Glu Tyr Glu Leu Pro Glu Asp Pro Lys Trp Glu Phe Pro Arg Asp				1858
465	470	475	480	
aag ctg aca ctg ggc aag ccc ctg gga gaa ggt tgc ttt ggg caa gtg Lys Leu Thr Leu Gly Lys Pro Leu Gly Glu Gly Cys Phe Gly Gln Val				1906
485	490	495		
gtc atg gcg gaa gca gtg gga att gac aaa gac aag ccc aag gag gcg Val Met Ala Glu Ala Val Gly Ile Asp Lys Asp Lys Pro Lys Glu Ala				1954
500	505	510		
gtc acc gtg gcc gtg aag atg ttg aaa gat gat gcc aca gag aaa gac Val Thr Val Ala Val Lys Met Leu Lys Asp Asp Ala Thr Glu Lys Asp				2002
515	520	525		
ctt tct gat ctg gtg tca gag atg gag atg atg aag atg att ggg aaa Leu Ser Asp Leu Val Ser Glu Met Glu Met Met Lys Met Ile Gly Lys				2050
530	535	540		
cac aag aat atc ata aat ctt ctt gga gcc tgc aca cag gat ggg cct His Lys Asn Ile Ile Asn Leu Leu Gly Ala Cys Thr Gln Asp Gly Pro				2098
545	550	555	560	
ctc tat gtc ata gtt gag tat gcc tct aaa ggc aac ctc cga gaa tac Leu Tyr Val Ile Val Glu Tyr Ala Ser Lys Gly Asn Leu Arg Glu Tyr				2146

565	570	575	
ctc' cga gcc cg ^g agg cca ccc ggg atg gag tac tcc tat gac att aac Leu Arg Ala Arg Arg Pro Pro Gly Met Glu Tyr Ser Tyr Asp Ile Asn			2194
580	585	590	
cgt gtt cct gag gag cag atg acc ttc aag gac ttg gtg tca tgc acc Arg Val Pro Glu Glu Gln Met Thr Phe Lys Asp Leu Val Ser Cys Thr			2242
595	600	605	
tac cag ctg gcc aga cgg atg gag tac ttg gct tcc caa aaa tgt att Tyr Gln Leu Ala Arg Arg Met Glu Tyr Leu Ala Ser Gln Lys Cys Ile			2290
610	615	620	
cat cga gat tta gca gcc aga aat gtt ttg gta aca gaa aac aat gtg His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Thr Glu Asn Asn Val			2338
625	630	635	640
atg aaa ata gca gac ttt gga ctc gcc aga gat atc aac aat ata gac Met Lys Ile Ala Asp Phe Gly Leu Ala Arg Asp Ile Asn Asn Ile Asp			2386
645	650	655	
tat tac aaa aag acc acc aat ggg cgg ctt cca gtc aag tgg atg gct Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu Pro Val Lys Trp Met Ala			2434
660	665	670	
cca gaa gcc ctg ttt gat aga gta tac act cat cag agt gat gtc tgg Pro Glu Ala Leu Phe Asp Arg Val Tyr Thr His Gln Ser Asp Val Trp			2482
675	680	685	
tcc ttc ggg gtg tta atg tgg gag atc ttc act tta ggg ggc tcg ccc Ser Phe Gly Val Leu Met Trp Glu Ile Phe Thr Leu Gly Gly Ser Pro			2530
690	695	700	
tac cca ggg att ccc gtg gag gaa ctt ttt aag ctg ctg aag gaa gga Tyr Pro Gly Ile Pro Val Glu Glu Leu Phe Lys Leu Leu Lys Glu Gly			2578
705	710	715	720
cac aga atg gat aag cca gcc aac tgc acc aac gaa ctg tac atg atg His Arg Met Asp Lys Pro Ala Asn Cys Thr Asn Glu Leu Tyr Met Met			2626
725	730	735	
atg agg gac tgt tgg cat gca gtg ccc tcc cag aga cca acg ttc aag Met Arg Asp Cys Trp His Ala Val Pro Ser Gln Arg Pro Thr Phe Lys			2674

740

745

750

cag ttg gta gaa gac ttg gat cga att ctc act ctc aca acc aat gag 2722
Gln Leu Val Glu Asp Leu Asp Arg Ile Leu Thr Leu Thr Thr Asn Glu
755 760 765

taa agccaaggat atgggaggga aaaaaagggg aaagagtcat ggaaagccag 2775

cttcttgctg aaactccact aggtgccctg ctggaatctc ccttgaaaga g 2826

<210> 22
<211> 310
<212> DNA
<213> Homo sapiens

<220>

<220>
<221> CDS
<222> (1)...(99)

<400> 22 48
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Asp Leu Asp Arg Ile Leu Thr Leu Thr Thr Asn Glu Glu Tyr Leu Asp
1 5 10 15

ctc agt cag cct ctc gaa ccg tat tca cct tgt tat cct gac cca aga 96
Leu Ser Gln Pro Leu Glu Pro Tyr Ser Pro Cys Tyr Pro Asp Pro Arg
20 25 30

tga aataaaaacgt ctctttccc ttctttcagg aataacttgga cctcagccaa 149

cctctcgaac agtattcacc tagttaccct gacacaagaa gttcttgttc ttcaggagat 209
gattctgttt ttctccaga ccccatgcct tacgaaccat gccttcctca gtatccacac 269
ataaacggca gtgttaaaac atgaatgact gtgtctgcct g 310

<210> 23
<211> 3025
<212> DNA
<213> Homo sapiens

<220>

<220>
<221> CDS
<222> (595) ... (2643)

<400> 23

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cggcgtaacct ggcccgccgc ggcgactgct ctccgggctg gcggggccgc gccgcgagcc	120
ccggggggcccgaggccgc gcttgcctgc gcgctctgag cttcgcaac tcgcgagcaa	180
agtttggtgg aggcaacgcc aagcctgagt ctttcttcc tctcgttccc caaatccgag	240
ggcagccgc gggcgcatg cccgcgtcc tccgcagcct ggggtacgcg tgaagcccg	300
gaggcttggc gccggcgaag acccaaggac cactcttctg cgtttggagt tgctccccac	360
aaccccgggc tcgtcgctt ctccatcccg acccacgcgg ggcgcgggca aacacaggt	420
cgcggaggag cttgccatt caagtgactg cagcagcagc ggcagcgcct cggttcctga	480
gcccacccgc ggctgaaggc attgcgcgta gtccatgccc gttagaggaag tgtgcagatg	540
ggattaacgt ccacatggag atatgaaaga ggaccgggaa ttgttaccgt aacc atg	597
Met	
1	
gtc agc tgg ggt cgt ttc atc tgc ctg gtc gtg gtc acc atg gca acc	645
Val Ser Trp Gly Arg Phe Ile Cys Leu Val Val Val Thr Met Ala Thr	
5 10 15	
ttg tcc ctg gcc cgg ccc tcc ttc agt tta gtt gag gat acc aca tta	693
Leu Ser Leu Ala Arg Pro Ser Phe Ser Leu Val Glu Asp Thr Thr Leu	
20 25 30	
gag cca gaa gat gcc atc tca tcc gga gat gat gag gat gac acc gat	741
Glu Pro Glu Asp Ala Ile Ser Ser Gly Asp Asp Glu Asp Asp Thr Asp	

35	40	45	
ggt gcg gaa gat ttt gtc agt gag aac aac aac aag aca cca			789
Gly Ala Glu Asp Phe Val Ser Glu Asn Ser Asn Asn Lys Arg Ala Pro			
50	55	60	65
tac tgg acc aac aca gaa aag atg gaa aag cgg ctc cat gct gtg cct			837
Tyr Trp Thr Asn Thr Glu Lys Met Glu Lys Arg Leu His Ala Val Pro			
70	75	80	
gcg gcc aac act gtc aag ttt cgc tgc cca gcc ggg ggg aac cca atg			885
Ala Ala Asn Thr Val Lys Phe Arg Cys Pro Ala Gly Gly Asn Pro Met			
85	90	95	
cca acc atg cgg tgg ctg aaa aac ggg aag gag ttt aag cag gag cat			933
Pro Thr Met Arg Trp Leu Lys Asn Gly Lys Glu Phe Lys Gln Glu His			
100	105	110	
cgc att gga ggc tac aag gta cga aac cag cac tgg agc ctc att atg			981
Arg Ile Gly Gly Tyr Lys Val Arg Asn Gln His Trp Ser Leu Ile Met			
115	120	125	
gaa agt gtg gtc cca tct gac aag gga aat tat acc tgt gtg gtg gag			1029
Glu Ser Val Val Pro Ser Asp Lys Gly Asn Tyr Thr Cys Val Val Glu			
130	135	140	145
aat gaa tac ggg tcc atc aat cac acg tac cac ctg gat gtt gtg gag			1077
Asn Glu Tyr Gly Ser Ile Asn His Thr Tyr His Leu Asp Val Val Glu			
150	155	160	
cga tcg cct cac cgg ccc atc ctc caa gcc gga ctg ccg gca aat gcc			1125
Arg Ser Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Ala			
165	170	175	
tcc aca gtg gtc gga gga gac gta gag ttt gtc tgc aag gtt tac agt			1173
Ser Thr Val Val Gly Gly Asp Val Glu Phe Val Cys Lys Val Tyr Ser			
180	185	190	
gat gcc cag ccc cac atc cag tgg atc aag cac gtg gaa aag aac ggc			1221
Asp Ala Gln Pro His Ile Gln Trp Ile Lys His Val Glu Lys Asn Gly			
195	200	205	
agt aaa tac ggg ccc gac ggg ctg ccc tac ctc aag gtt ctc aag cac			1269
Ser Lys Tyr Gly Pro Asp Gly Leu Pro Tyr Leu Lys Val Leu Lys His			

210	215	220	225	
tcg ggg ata aat agt tcc aat gca gaa gtg ctg gct ctg ttc aat gtg				1317
Ser Gly Ile Asn Ser Ser Asn Ala Glu Val Leu Ala Leu Phe Asn Val				
230	235	240		
acc gag gcg gat gct ggg gaa tat ata tgt aag gtc tcc aat tat ata				1365
Thr Glu Ala Asp Ala Gly Glu Tyr Ile Cys Lys Val Ser Asn Tyr Ile				
245	250	255		
ggg cag gcc aac cag tct gcc tgg ctc act gtc ctg cca aaa cag caa				1413
Gly Gln Ala Asn Gln Ser Ala Trp Leu Thr Val Leu Pro Lys Gln Gln				
260	265	270		
gct cct gga aga gaa aag gag att aca gct tcc cca gac tac ctg gag				1461
Ala Pro Gly Arg Glu Lys Glu Ile Thr Ala Ser Pro Asp Tyr Leu Glu				
275	280	285		
ata gcc att tac tgc ata ggg gtc ttc tta atc gcc tgt atg gtg gta				1509
Ile Ala Ile Tyr Cys Ile Gly Val Phe Leu Ile Ala Cys Met Val Val				
290	295	300	305	
aca gtc atc ctg tgc cga atg aag aac acg acc aag aag cca gac ttc				1557
Thr Val Ile Leu Cys Arg Met Lys Asn Thr Lys Lys Pro Asp Phe				
310	315	320		
agc agc cag ccg gct gtg cac aag ctg acc aaa cgt atc ccc ctg cgg				1605
Ser Ser Gln Pro Ala Val His Lys Leu Thr Lys Arg Ile Pro Leu Arg				
325	330	335		
aga cag gtt tcg gct gag tcc agc tcc tcc atg aac tcc aac acc ccg				1653
Arg Gln Val Ser Ala Glu Ser Ser Ser Met Asn Ser Asn Thr Pro				
340	345	350		
ctg gtg agg ata aca aca cgc ctc tct tca acg gca gac acc ccc atg				1701
Leu Val Arg Ile Thr Thr Arg Leu Ser Ser Thr Ala Asp Thr Pro Met				
355	360	365		
ctg gca ggg gtc tcc gag tat gaa ctt cca gag gac cca aaa tgg gag				1749
Leu Ala Gly Val Ser Glu Tyr Glu Leu Pro Glu Asp Pro Lys Trp Glu				
370	375	380	385	
ttt cca aga gat aag ctg aca ctg ggc aag ccc ctg gga gaa ggt tgc				1797
Phe Pro Arg Asp Lys Leu Thr Leu Gly Lys Pro Leu Gly Glu Gly Cys				

390	395	400	
ttt ggg caa gtg gtc atg gcg gaa gca gtg gga att gac aaa gac aag Phe Gly Gln Val Val Met Ala Glu Ala Val Gly Ile Asp Lys Asp Lys			1845
405	410	415	
ccc aag gag gcg gtc acc gtg gcc gtg aag atg ttg aaa gat gat gcc Pro Lys Glu Ala Val Thr Val Ala Val Lys Met Leu Lys Asp Asp Ala			1893
420	425	430	
aca gag aaa gac ctt tct gat ctg gtg tca gag atg gag atg atg aag Thr Glu Lys Asp Leu Ser Asp Leu Val Ser Glu Met Glu Met Met Lys			1941
435	440	445	
atg att ggg aaa cac aag aat atc ata aat ctt ctt gga gcc tgc aca Met Ile Gly Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala Cys Thr			1989
450	455	460	465
cag gat ggg cct ctc tat gtc ata gtt gag tat gcc tct aaa ggc aac Gln Asp Gly Pro Leu Tyr Val Ile Val Glu Tyr Ala Ser Lys Gly Asn			2037
470	475	480	
ctc cga gaa tac ctc cga gcc cgg agg cca ccc ggg atg gag tac tcc Leu Arg Glu Tyr Leu Arg Ala Arg Pro Pro Gly Met Glu Tyr Ser			2085
485	490	495	
tat gac att aac cgt gtt cct gag gag cag atg acc ttc aag gac ttg Tyr Asp Ile Asn Arg Val Pro Glu Glu Gln Met Thr Phe Lys Asp Leu			2133
500	505	510	
gtg tca tgc acc tac cag ctg gcc aga ggc atg gag tac ttg gct tcc Val Ser Cys Thr Tyr Gln Leu Ala Arg Gly Met Glu Tyr Leu Ala Ser			2181
515	520	525	
caa aaa tgt att cat cga gat tta gca gcc aga aat gtt ttg gta aca Gln Lys Cys Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Thr			2229
530	535	540	545
gaa aac aat gtg atg aaa ata gca gac ttt gga ctc gcc aga gat atc Glu Asn Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg Asp Ile			2277
550	555	560	
aac aat ata gac tat tac aaa aag acc acc aat ggg cgg ctt cca gtc Asn Asn Ile Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu Pro Val			2325

565	570	575	
aag tgg atg gct cca gaa gcc ctg ttt gat aga gta tac act cat cag Lys Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Val Tyr Thr His Gln			2373
580	585	590	
agt gat gtc tgg tcc ttc ggg gtg tta atg tgg gag atc ttc act tta Ser Asp Val Trp Ser Phe Gly Val Leu Met Trp Glu Ile Phe Thr Leu			2421
595	600	605	
ggg ggc tcg ccc tac cca ggg att ccc gtg gag gaa ctt ttt aag ctg Gly Gly Ser Pro Tyr Pro Gly Ile Pro Val Glu Glu Leu Phe Lys Leu			2469
610	615	620	625
ctg aag gaa gga cac aga atg gat aag cca gcc aac tgc acc aac gaa Leu Lys Glu Gly His Arg Met Asp Lys Pro Ala Asn Cys Thr Asn Glu			2517
630	635	640	
ctg tac atg atg atg agg gac tgt tgg cat gca gtg ccc tcc cag aga Leu Tyr Met Met Arg Asp Cys Trp His Ala Val Pro Ser Gln Arg			2565
645	650	655	
cca acg ttc aag cag ttg gta gaa gac ttg gat cga att ccc ccc aac Pro Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Ile Pro Pro Asn			2613
660	665	670	
cct tcc ctt atg agc att ttt aga aaa tag tcttagccaa tggtagaaaa Pro Ser Leu Met Ser Ile Phe Arg Lys			2663
675	680		
tgctcataag gaagggttgg ggaattaccc tttagacaca agctctaaga actctggata			2723
caacgggaac ttggatggat acagtctggc cctgctggc cagatgttcc gagggcggcc			2783
cggcaagcag cctgtcttgc acattgcaac tgactggctt aatctacggc aagagtcctt			2843
cagctccgtc acagagtact ctccaatgtg ttatagttat ccttaaagct cttcaattca			2903
aggaagtgct tggcacgttt actcttctga ctggagggga ggtatgtcac ctggatggtt			2963
gttggggaga cctcagggga ctgagttagg tctttggctg ctgactggtg atgtcgctga			3023
gg			3025

<210> 24
<211> 3244
<212> DNA
<213> Homo sapiens

<220>

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<221> CDS
<222> (488) . . . (2605)

<400> 24

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ccccaaatcc	gagggcagcc	cgcggcgctc	atgcccgcgc	tcctccgcag	cctggggtag	180										
gcgtgaagcc	cgggaggctt	gggcgcggcg	aagacccaag	gaccacttt	ctgcgtttgg	240										
agttgctccc	cccaaccccg	ggctcgctcg	tttctccatc	ccgacccacg	cggggcgcgg	300										
ggacaacaca	ggtcgcggag	gagcgttgcc	attcaagtga	ctgcagcagc	agcggcagcg	360										
cctcggttcc	tgagcccacc	gcaggctgaa	ggcattgcgc	gtagtccatg	cccgttagagg	420										
aagtgtgcag	atgggattaa	cgtccacatg	gagatatgga	agaggaccgg	ggattggtag	480										
cgtaacc	atg	gtc	agc	tgg	ggt	529										
Met	Val	Ser	Trp	Gly	Arg	Phe	Ile	Cys	Leu	Val	Val	Thr				
1	5						10									
atg	gca	acc	ttg	tcc	ctg	gcc	cg	ccc	tcc	ttc	agt	tta	gtt	gag	gat	577
Met	Ala	Thr	Leu	Ser	Leu	Ala	Arg	Pro	Ser	Phe	Ser	Leu	Val	Glu	Asp	
15	20										25		30			
acc	aca	tta	gag	cca	gaa	gag	cca	cca	acc	aaa	tac	caa	atc	tct	caa	625
Thr	Thr	Leu	Glu	Pro	Glu	Glu	Pro	Pro	Thr	Lys	Tyr	Gln	Ile	Ser	Gln	
35									40			45				
cca	gaa	gtg	tac	gtg	gct	g	cg	cca	ggg	gag	tcg	cta	gag	gtg	cgc	673
Pro	Glu	Val	Tyr	Val	Ala	Ala	Pro	Gly	Glu	Ser	Leu	Glu	Val	Arg	Cys	
50									55			60				

ctg ttg aaa gat gcc gcc gtg atc agt tgg act aag gat ggg gtg cac 721
 Leu Leu Lys Asp Ala Ala Val Ile Ser Trp Thr Lys Asp Gly Val His
 65 70 75

ttg ggg ccc aac aat agg aca gtg ctt att ggg gag tac ttg cag ata 769
 Leu Gly Pro Asn Asn Arg Thr Val Leu Ile Gly Glu Tyr Leu Gln Ile
 80 85 90

aag ggc gcc acg cct aga gac tcc ggc ctc tat gct tgt act gcc agt 817
 Lys Gly Ala Thr Pro Arg Asp Ser Gly Leu Tyr Ala Cys Thr Ala Ser
 95 100 105 110

agg act gta gac agt gaa act tgg tac ttc atg gtg aat gtc aca gat 865
 Arg Thr Val Asp Ser Glu Thr Trp Tyr Phe Met Val Asn Val Thr Asp
 115 120 125

gcc atc tca tcc gga gat gat gag gat gac acc gat ggt gcg gaa gat 913
 Ala Ile Ser Ser Gly Asp Asp Glu Asp Asp Thr Asp Gly Ala Glu Asp
 130 135 140

ttt gtc agt gag aac agt aac aac aag aga gca cca tac tgg acc aac 961
 Phe Val Ser Glu Asn Ser Asn Asn Lys Arg Ala Pro Tyr Trp Thr Asn
 145 150 155

aca gaa aag atg gaa aag cgg ctc cat gct gtg cct gcg gcc aac act 1009
 Thr Glu Lys Met Glu Lys Arg Leu His Ala Val Pro Ala Ala Asn Thr
 160 165 170

gtc aag ttt cgc tgc cca gcc ggg ggg aac cca atg cca acc atg cgg 1057
 Val Lys Phe Arg Cys Pro Ala Gly Gly Asn Pro Met Pro Thr Met Arg
 175 180 185 190

tgg ctg aaa aac ggg aag gag ttt aag cag gag cat cgc att gga ggc 1105
 Trp Leu Lys Asn Gly Lys Glu Phe Lys Gln Glu His Arg Ile Gly Gly
 195 200 205

tac aag gta cga aac cag cac tgg agc ctc att atg gaa agt gtg gtc 1153
 Tyr Lys Val Arg Asn Gln His Trp Ser Leu Ile Met Glu Ser Val Val
 210 215 220

cca tct gac aag gga aat tat acc tgt gtg gtg gag aat gaa tac ggg 1201
 Pro Ser Asp Lys Gly Asn Tyr Thr Cys Val Val Glu Asn Glu Tyr Gly
 225 230 235

tcc atc aat cac acg tac cac ctg gat gtt gtg gag cga tcg cct cac	240	245	250	1249
Ser Ile Asn His Thr Tyr His Leu Asp Val Val Glu Arg Ser Pro His				
cgg ccc atc ctc caa gcc gga ctg ccg gca aat gcc tcc aca gtg gtc	255	260	265	1297
Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Ala Ser Thr Val Val				
gga gga gac gta gag ttt gtc tgc aag gtt tac agt gat gcc cag ccc	275	280	285	1345
Gly Gly Asp Val Glu Phe Val Cys Lys Val Tyr Ser Asp Ala Gln Pro				
cac atc cag tgg atc aag cac gtg gaa aag aac ggc agt aaa tac ggg	290	295	300	1393
His Ile Gln Trp Ile Lys His Val Glu Lys Asn Gly Ser Lys Tyr Gly				
ccc gac ggg ctg ccc tac ctc aag gtt ctc aag gtt tcg gct gag tcc	305	310	315	1441
Pro Asp Gly Leu Pro Tyr Leu Lys Val Leu Lys Val Ser Ala Glu Ser				
agc tcc tcc atg aac tcc aac acc ccg ctg gtg agg ata aca aca cgc	320	325	330	1489
Ser Ser Ser Met Asn Ser Asn Thr Pro Leu Val Arg Ile Thr Thr Arg				
ctc tct tca acg gca gac acc ccc atg ctg gca ggg gtc tcc gag tat	335	340	345	1537
Leu Ser Ser Thr Ala Asp Thr Pro Met Leu Ala Gly Val Ser Glu Tyr				
gaa ctt cca gag gac cca aaa tgg gag ttt cca aga gat aag ctg aca	355	360	365	1585
Glu Leu Pro Glu Asp Pro Lys Trp Glu Phe Pro Arg Asp Lys Leu Thr				
ctg ggc aag ccc ctg gga gaa ggt tgc ttt ggg caa gtg gtc atg gcg	370	375	380	1633
Leu Gly Lys Pro Leu Gly Glu Gly Cys Phe Gly Gln Val Val Met Ala				
gaa gca gtg gga att gac aaa gac aag ccc aag gag gcg gtc acc gtg	385	390	395	1681
Glu Ala Val Gly Ile Asp Lys Asp Lys Pro Lys Glu Ala Val Thr Val				
gcc gtg aag atg ttg aaa gat gat gcc aca gag aaa gac ctt tct gat	400	405	410	1729
Ala Val Lys Met Leu Lys Asp Asp Ala Thr Glu Lys Asp Leu Ser Asp				

ctg gtg tca gag atg gag atg atg aag atg att ggg aaa cac aag aat	415	420	425	430	1777
Leu Val Ser Glu Met Glu Met Met Lys Met Ile Gly Lys His Lys Asn					
atc ata aat ctt ctt gga gcc tgc aca cag gat ggg cct ctc tat gtc	435	440	445		1825
Ile Ile Asn Leu Leu Gly Ala Cys Thr Gln Asp Gly Pro Leu Tyr Val					
ata gtt gag tat gcc tct aaa ggc aac ctc cga gaa tac ctc cga gcc	450	455	460		1873
Ile Val Glu Tyr Ala Ser Lys Gly Asn Leu Arg Glu Tyr Leu Arg Ala					
cgg agg cca ccc ggg atg gag tac tcc tat gac att aac cgt gtt cct	465	470	475		1921
Arg Arg Pro Pro Gly Met Glu Tyr Ser Tyr Asp Ile Asn Arg Val Pro					
gag gag cag atg acc ttc aag gac ttg gtg tca tgc acc tac cag ctg	480	485	490		1969
Glu Glu Gln Met Thr Phe Lys Asp Leu Val Ser Cys Thr Tyr Gln Leu					
gcc aga ggc atg gag tac ttg gct tcc caa aaa tgt att cat cga gat	495	500	505	510	2017
Ala Arg Gly Met Glu Tyr Leu Ala Ser Gln Lys Cys Ile His Arg Asp					
tta gca gcc aga aat gtt ttg gta aca gaa aac aat gtg atg aaa ata	515	520	525		2065
Leu Ala Ala Arg Asn Val Leu Val Thr Glu Asn Asn Val Met Lys Ile					
gca gac ttt gga ctc gcc aga gat atc aac aat ata gac tat tac aaa	530	535	540		2113
Ala Asp Phe Gly Leu Ala Arg Asp Ile Asn Asn Ile Asp Tyr Tyr Lys					
aag acc acc aat ggg cgg ctt cca gtc aag tgg atg gct cca gaa gcc	545	550	555		2161
Lys Thr Thr Asn Gly Arg Leu Pro Val Lys Trp Met Ala Pro Glu Ala					
ctg ttt gat aga gta tac act cat cag agt gat gtc tgg tcc ttc ggg	560	565	570		2209
Leu Phe Asp Arg Val Tyr Thr His Gln Ser Asp Val Trp Ser Phe Gly					
gtg tta atg tgg gag atc ttc act tta ggg ggc tcg ccc tac cca ggg	575	580	585	590	2257
Val Leu Met Trp Glu Ile Phe Thr Leu Gly Gly Ser Pro Tyr Pro Gly					

att ccc gtg gag gaa ctt ttt aag ctg ctg aag gaa gga cac aga atg 2305
Ile Pro Val Glu Glu Leu Phe Lys Leu Leu Lys Glu Gly His Arg Met
595 600 605

gat aag cca gcc aac tgc acc aac gaa ctg tac atg atg atg agg gac 2353
Asp Lys Pro Ala Asn Cys Thr Asn Glu Leu Tyr Met Met Arg Asp
610 615 620

tgt tgg cat gca gtg ccc tcc cag aga cca acg ttc aag cag ttg gta 2401
Cys Trp His Ala Val Pro Ser Gln Arg Pro Thr Phe Lys Gln Leu Val
625 630 635

gaa gac ttg gat cga att ctc act ctc aca acc aat gag gaa tac ttg 2449
Glu Asp Leu Asp Arg Ile Leu Thr Leu Thr Asn Glu Glu Tyr Leu
640 645 650

gac ctc agc caa cct ctc gaa cag tat tca cct agt tac cct gac aca 2497
Asp Leu Ser Gln Pro Leu Glu Gln Tyr Ser Pro Ser Tyr Pro Asp Thr
655 660 665 670

aga agt tct tgt tct tca gga gat gat tct gtt ttt tct cca gac ccc 2545
Arg Ser Ser Cys Ser Ser Gly Asp Asp Ser Val Phe Ser Pro Asp Pro
675 680 685

atg cct tac gaa cca tgc ctt cct cag tat cca cac ata aac ggc agt 2593
Met Pro Tyr Glu Pro Cys Leu Pro Gln Tyr Pro His Ile Asn Gly Ser
690 695 700

gtt aaa aca tga atgactgtgt ctgcctgtcc ccaaacagga cagcaactggg 2645
Val Lys Thr
705

aacctagcta cactgagcag ggagaccatg cctccagag ctgttgtct ccacttgtat 2705

atatggatca gaggagtaaa taattggaaa agtaatcagc atatgtgtaa agatttatac 2765

agttgaaaac ttgtaatctt ccccaggagg agaagaaggt ttctggagca gtggactgcc 2825

acaagccacc atgtAACCCC tctcacctgc cgtgcgttct ggctgtggac cagtaggact 2885

caaggtggac gtgcgttctg ctttccttgt taattttgtataaattggag aagattttatg 2945

tcagcacaca cttacagagc acaaatgcag tatataggtg ctggatgtat gtaaatatat 3005

tcaaattatg tataaatata tattatataat ttacaaggag ttatttttg tattgatttt 3065
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aatgctgttc ttacacataa tttcttaatt ttcaccgagc agaggtggaa aaatacttt 3185
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gccgcggggc tgcattgcggc gtacctggcc cggcgcggcg actgctctcc gggctggcgg 120
gggcggcccg cgagccccgg gggcccccggag gccgcagctt gcctgcgcgc tctgagcctt 180
cgcaactcgc gagcaaagtt tggtgaggc aacgccaagc ctgagtcctt tcttcctctc 240
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tacgcgctga agcccgggag gcttggcgcc ggcgaagacc caaggaccac tcttctgcgt 360
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gcggggacaa cacaggtcgc ggaggagcgt tgccattcaa gtgactgcag cagcagcggc 480
agcgccctcgg ttcctgagcc caccgcaggc tgaaggcatt gcgcgtagtc catgcccgt 540
gaggaagtgt gcagatggga ttaacgtcca catggagata tggaagagga ccggggattg 600
gtaccgtAAC C atg gtc agc tgg ggt cgt ttc atc tgc ctg gtc gtg gtc 650
Met Val Ser Trp Gly Arg Phe Ile Cys Leu Val Val Val

1	5	10	
acc atg gca acc ttg tcc ctg gcc cgg ccc tcc ttc agt tta gtt gag			698
Thr Met Ala Thr Leu Ser Leu Ala Arg Pro Ser Phe Ser Leu Val Glu			
15	20	25	
gat acc aca tta gag cca gaa gag cca cca acc aaa tac caa atc tct			746
Asp Thr Thr Leu Glu Pro Glu Glu Pro Pro Thr Lys Tyr Gln Ile Ser			
30	35	40	45
caa cca gaa gtg tac gtg gct gcg cca ggg gag tcg cta gag gtg cgc			794
Gln Pro Glu Val Tyr Val Ala Ala Pro Gly Glu Ser Leu Glu Val Arg			
50	55	60	
tgc ctg ttg aaa gat gcc gcc gtg atc agt tgg act aag gat ggg gtg			842
Cys Leu Leu Lys Asp Ala Ala Val Ile Ser Trp Thr Lys Asp Gly Val			
65	70	75	
cac ttg ggg ccc aac aat agg aca gtg ctt att ggg gag tac ttg cag			890
His Leu Gly Pro Asn Asn Arg Thr Val Leu Ile Gly Glu Tyr Leu Gln			
80	85	90	
ata aag ggc gcc acg cct aga gac tcc ggc ctc tat gct tgt act gcc			938
Ile Lys Gly Ala Thr Pro Arg Asp Ser Gly Leu Tyr Ala Cys Thr Ala			
95	100	105	
agt agg act gta gac agt gaa act tgg tac ttc atg gtg aat gtc aca			986
Ser Arg Thr Val Asp Ser Glu Thr Trp Tyr Phe Met Val Asn Val Thr			
110	115	120	125
gat gcc atc tca tcc gga gat gat gag gat gac acc gat ggt gcg gaa			1034
Asp Ala Ile Ser Ser Gly Asp Asp Glu Asp Asp Thr Asp Gly Ala Glu			
130	135	140	
gat ttt gtc agt gag aac aac aac aag aga gca cca tac tgg acc			1082
Asp Phe Val Ser Glu Asn Ser Asn Asn Lys Arg Ala Pro Tyr Trp Thr			
145	150	155	
aac aca gaa aag atg gaa aag cgg ctc cat gct gtg cct gcg gcc aac			1130
Asn Thr Glu Lys Met Glu Lys Arg Leu His Ala Val Pro Ala Ala Asn			
160	165	170	
act gtc aag ttt cgc tgc cca gcc ggg ggg aac cca atg cca acc atg			1178
Thr Val Lys Phe Arg Cys Pro Ala Gly Gly Asn Pro Met Pro Thr Met			

175	180	185	
cgg tgg ctg aaa aac ggg aag gag ttt aag cag gag cat cgc att gga			1226
Arg Trp Leu Lys Asn Gly Lys Glu Phe Lys Gln Glu His Arg Ile Gly			
190	195	200	205
ggc tac aag gta cga aac cag cac tgg agc ctc att atg gaa agt gtg			1274
Gly Tyr Lys Val Arg Asn Gln His Trp Ser Leu Ile Met Glu Ser Val			
210	215	220	
gtc cca tct gac aag gga aat tat acc tgt gtg gtg gag aat gaa tac			1322
Val Pro Ser Asp Lys Gly Asn Tyr Thr Cys Val Val Glu Asn Glu Tyr			
225	230	235	
ggg tcc atc aat cac acg tac cac ctg gat gtt gtg gag cga tcg cct			1370
Gly Ser Ile Asn His Thr Tyr His Leu Asp Val Val Glu Arg Ser Pro			
240	245	250	
cac cgg ccc atc ctc caa gcc gga ctg ccg gca aat gcc tcc aca gtg			1418
His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Ala Ser Thr Val			
255	260	265	
gtc gga gga gac gta gag ttt gtc tgc aag gtt tac agt gat gcc cag			1466
Val Gly Gly Asp Val Glu Phe Val Cys Lys Val Tyr Ser Asp Ala Gln			
270	275	280	285
ccc cac atc cag tgg atc aag cac gtg gaa aag aac ggc agt aaa tac			1514
Pro His Ile Gln Trp Ile Lys His Val Glu Lys Asn Gly Ser Lys Tyr			
290	295	300	
ggg ccc gac ggg ctg ccc tac ctc aag gtt ctc aag cac tcg ggg ata			1562
Gly Pro Asp Gly Leu Pro Tyr Leu Lys Val Leu Lys His Ser Gly Ile			
305	310	315	
aat agt tcc aat gca gaa gtg ctg gct ctg ttc aat gtg acc gag gcg			1610
Asn Ser Ser Asn Ala Glu Val Leu Ala Leu Phe Asn Val Thr Glu Ala			
320	325	330	
gat gct ggg gaa tat ata tgt aag gtc tcc aat tat ata ggg cag gcc			1658
Asp Ala Gly Glu Tyr Ile Cys Lys Val Ser Asn Tyr Ile Gly Gln Ala			
335	340	345	
aac cag tct gcc tgg ctc act gtc ctg cca aaa cag caa gcg cct gga			1706
Asn Gln Ser Ala Trp Leu Thr Val Leu Pro Lys Gln Gln Ala Pro Gly			

350	355	360	365	
aga gaa aag gag att aca gct tcc cca gac tac ctg gag ata gcc att				1754
Arg	Glu	Lys	Glu	Ile
Thr Ala Ser Pro Asp Tyr Leu Glu Ile Ala Ile				
370	375	380		
tac tgc ata ggg gtc ttc tta atc gcc tgt atg gtg gta aca gtc atc				1802
Tyr	Cys	Ile	Gly	Val
Phe Leu Ile Ala Cys Met Val Val Thr Val Ile				
385	390	395		
ctg tgc cga atg aag aac acg acc aag aag cca gac ttc agc agc cag				1850
Leu	Cys	Arg	Met	Lys
Asn Thr Thr Lys Lys Pro Asp Phe Ser Ser Gln				
400	405	410		
ccg gct gtg cac aag ctg acc aaa cgt atc ccc ctg cgg aga cag gta				1898
Pro	Ala	Val	His	Lys
Leu Thr Lys Arg Ile Pro Leu Arg Arg Gln Val				
415	420	425		
aca gtt tcg gct gag tcc agc tcc tcc atg aac tcc aac acc ccg ctg				1946
Thr	Val	Ser	Ala	Glu
Ser Ser Ser Met Asn Ser Asn Thr Pro Leu				
430	435	440	445	
gtg agg ata aca aca cgc ctc tct tca acg gca gac acc ccc atg ctg				1994
Val	Arg	Ile	Thr	Arg
Leu Ser Ser Thr Ala Asp Thr Pro Met Leu				
450	455	460		
gca ggg gtc tcc gag tat gaa ctt cca gag gac cca aaa tgg gag ttt				2042
Ala	Gly	Val	Ser	Glu
Tyr Glu Leu Pro Glu Asp Pro Lys Trp Glu Phe				
465	470	475		
cca aga gat aag ctg aca ctg ggc aag ccc ctg gga gaa ggt tgc ttt				2090
Pro	Arg	Asp	Lys	Leu
Thr Leu Gly Lys Pro Leu Gly Glu Gly Cys Phe				
480	485	490		
ggg caa gtg gtc atg gcg gaa gca gtg gga att gac aaa gac aag ccc				2138
Gly	Gln	Val	Val	Met
Ala Glu Ala Val Gly Ile Asp Lys Asp Lys Pro				
495	500	505		
aag gag gcg gtc acc gtg gcc gtg aag atg ttg aaa gat gat gcc aca				2186
Lys	Glu	Ala	Val	Thr
Val Ala Val Lys Met Leu Lys Asp Asp Ala Thr				
510	515	520	525	
gag aaa gac ctt tct gat ctg gtg tca gag atg gag atg aag atg				2234
Glu	Lys	Asp	Leu	Ser
Asp Leu Val Ser Glu Met Glu Met Met Lys Met				

530	535	540	
att ggg aaa cac aag aat atc ata aat ctt ctt gga gcc tgc aca cag Ile Gly Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala Cys Thr Gln			2282
545	550	555	
gat ggg cct ctc tat gtc ata gtt gag tat gcc tct aaa ggc aac ctc Asp Gly Pro Leu Tyr Val Ile Val Glu Tyr Ala Ser Lys Gly Asn Leu			2330
560	565	570	
cga gaa tac ctc cga gcc cgg agg cca ccc ggg atg gag tac tcc tat Arg Glu Tyr Leu Arg Ala Arg Arg Pro Pro Gly Met Glu Tyr Ser Tyr			2378
575	580	585	
gac att aac cgt gtt cct gag gag cag atg acc ttc aag gac ttg gtg Asp Ile Asn Arg Val Pro Glu Glu Gln Met Thr Phe Lys Asp Leu Val			2426
590	595	600	605
tca tgc acc tac cag ctg gcc aga ggc atg gag tac ttg gct tcc caa Ser Cys Thr Tyr Gln Leu Ala Arg Gly Met Glu Tyr Leu Ala Ser Gln			2474
610	615	620	
aaa tgt att cat cga gat tta gca gcc aga aat gtt ttg gta aca gaa Lys Cys Ile His Arg Asp Leu Ala Arg Asn Val Leu Val Thr Glu			2522
625	630	635	
aac aat gtg atg aaa ata gca gac ttt gga ctc gcc aga gat atc aac Asn Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg Asp Ile Asn			2570
640	645	650	
aat ata gac tat tac aaa aag acc acc aat ggg cgg ctt cca gtc aag Asn Ile Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu Pro Val Lys			2618
655	660	665	
tgg atg gct cca gaa gcc ctg ttt gat aga gta tac act cat cag agt Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Val Tyr Thr His Gln Ser			2666
670	675	680	685
gat gtc tgg tcc ttc ggg gtg tta atg tgg gag atc ttc act tta ggg Asp Val Trp Ser Phe Gly Val Leu Met Trp Glu Ile Phe Thr Leu Gly			2714
690	695	700	
ggc tcg ccc tac cca ggg att ccc gtg gag gaa ctt ttt aag ctg ctg Gly Ser Pro Tyr Pro Gly Ile Pro Val Glu Glu Leu Phe Lys Leu Leu			2762

705	710	715	
aag gaa gga cac aga atg gat aag cca gcc aac tgc acc aac gaa ctg Lys Glu Gly His Arg Met Asp Lys Pro Ala Asn Cys Thr Asn Glu Leu			2810
720	725	730	
tac atg atg atg agg gac tgt tgg cat gca gtg ccc tcc cag aga cca Tyr Met Met Arg Asp Cys Trp His Ala Val Pro Ser Gln Arg Pro			2858
735	740	745	
acg ttc aag cag ttg gta gaa gac ttg gat cga att ctc act ctc aca Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Ile Leu Thr Leu Thr			2906
750	755	760	765
acc aat gag gaa tac ttg gac ctc agc caa cct ctc gaa cag tat tca Thr Asn Glu Glu Tyr Leu Asp Leu Ser Gln Pro Leu Glu Gln Tyr Ser			2954
770	775	780	
cct agt tac cct gac aca aga agt tct tgt tct tca gga gat gat tct Pro Ser Tyr Pro Asp Thr Arg Ser Ser Cys Ser Ser Gly Asp Asp Ser			3002
785	790	795	
gtt ttt tct cca gac ccc atg cct tac gaa cca tgc ctt cct cag tat Val Phe Ser Pro Asp Pro Met Pro Tyr Glu Pro Cys Leu Pro Gln Tyr			3050
800	805	810	
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cattgcgcgt agtccatgcc	cgttagaggaa gtgtgcagat	gggattaaacg tccacatgga		240
gatatggaag aggaccgggg attggtaccg	taacc atg gtc agc tgg ggt cgt			293
	Met Val Ser Trp Gly Arg			
	1	5		
ttc atc tgc ctg gtc gtg	gtc acc atg gca acc ttg tcc ctg gcc	cg		341
Phe Ile Cys Leu Val Val	Val Thr Met Ala Thr Leu Ser Leu Ala Arg			
10	15	20		
ccc tcc ttc agt tta gtt gag	gat acc aca tta gag cca gaa gag cca			389
Pro Ser Phe Ser Leu Val Glu	Asp Thr Thr Leu Glu Pro Glu Glu Pro			
25	30	35		
cca acc aaa tac caa atc tct	caa cca gaa gtg tac gtg gct gcg cca			437
Pro Thr Lys Tyr Gln Ile Ser Gln Pro Glu Val	Tyr Val Ala Ala Pro			
40	45	50		
ggg gag tcg cta gag gtg cgc	tgc ctg ttg aaa gat gcc gcc gtg atc			485
Gly Glu Ser Leu Glu Val Arg	Cys Leu Leu Lys Asp Ala Ala Val Ile			
55	60	65	70	
agt tgg act aag gat ggg	gtg cac ttg ggg ccc aac aat agg aca	gtg		533
Ser Trp Thr Lys Asp Gly Val	His Leu Gly Pro Asn Asn Arg Thr Val			
75	80	85		
ctt att ggg gag tac ttg	cag ata aag ggc gcc acg cct aga gac	tcc		581
Leu Ile Gly Glu Tyr Leu Gln	Ile Lys Gly Ala Thr Pro Arg Asp Ser			
90	95	100		
ggc ctc tat gct tgt act	gcc agt agg act gta gac agt gaa act	tgg		629
Gly Leu Tyr Ala Cys Thr	Ala Ser Arg Thr Val Asp Ser Glu Thr Trp			
105	110	115		
tac ttc atg gtg aat	gtc aca gat gcc atc tca tcc gga	gat gat gag		677
Tyr Phe Met Val Asn Val	Thr Asp Ala Ile Ser Ser Gly Asp Asp Glu			
120	125	130		
gat gac acc gat ggt	gcg gaa gat ttt gtc agt gag aac	agt aac aac		725

Asp Asp Thr Asp Gly Ala Glu Asp Phe Val Ser Glu Asn Ser Asn Asn
135 140 145 150
aag aga gca cca tac tgg acc aac aca gaa aag atg gaa aag cgg ctc 773
Lys Arg Ala Pro Tyr Trp Thr Asn Thr Glu Lys Met Glu Lys Arg Leu
155 160 165
cat gct gtg cct gcg gcc aac act gtc aag ttt cgc tgc cca gcc ggg 821
His Ala Val Pro Ala Ala Asn Thr Val Lys Phe Arg Cys Pro Ala Gly
170 175 180
ggg aac cca atg cca acc atg cgg tgg ctg aaa aac ggg aag gag ttt 869
Gly Asn Pro Met Pro Thr Met Arg Trp Leu Lys Asn Gly Lys Glu Phe
185 190 195
aag cag gag cat cgc att gga ggc tac aag gta cga aac cag cac tgg 917
Lys Gln Glu His Arg Ile Gly Gly Tyr Lys Val Arg Asn Gln His Trp
200 205 210
agc ctc att atg gaa agt gtg gtc cca tct gac aag gga aat tat acc 965
Ser Leu Ile Met Glu Ser Val Val Pro Ser Asp Lys Gly Asn Tyr Thr
215 220 225 230
tgt gtg gtg gag aat gaa tac ggg tcc atc aat cac acg tac cac ctg 1013
Cys Val Val Glu Asn Glu Tyr Gly Ser Ile Asn His Thr Tyr His Leu
235 240 245
gat gtt gtg ggc agc cag ggt tta tga gctttgcatg atcctcatgg 1060
Asp Val Val Gly Ser Gln Gly Leu
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